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State of Utah

DEPARTMENT OF NATURAL RESOURCES

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Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

December 8, 2009

Mike Edwards
Geneva Rock Products, Inc.
1565 West 400 North
Orem, Utah 84057

Subject: First Review of Notice of Intention to Commence Large Mining Operations, Geneva Rock Products, North Grantsville Quarry Mine, M/045/0077, Tooele County, Utah

Dear Mr. Edwards:

The Division has completed a review of your Notice of Intention to Commence Large Mining Operations for the N. Grantsville Quarry Mine, which was received September 23, 2009. The attached comments will need to be addressed before tentative approval may be granted.

The comments are listed under the applicable Minerals Rule heading; please format your response in a similar fashion. Please address only those items requested in the attached technical review by sending replacement pages of the original mining notice using redline and strikeout text, so we can see what changes have been made. After the notice is determined technically complete and we are prepared to issue final approval, we will ask that you send us two clean copies of the complete and corrected plan. Upon final approval of the permit, we will return one copy stamped "approved" for your records.

Please take particular notice of comments 15 and 16 which discuss the final slopes. While the slopes shown in the plan comply with the R647 rules, we encourage you to be aware of the aesthetics of the final configuration. Please seriously consider creating a talus slope rather than a benched slope. While neither is particularly conducive to revegetation, vegetation on a talus slope is more likely to be visible. Please also note the comments about varying the slope length and width.

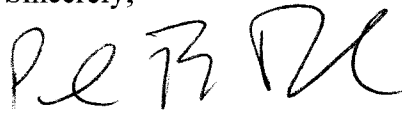
The Division will suspend further review of the Notice of Intention until your response to this letter is received. If you have any questions in this regard please contact me at 801-538-5261 or Leslie Heppler, permit lead, at 801-538-5257.



First Review
Page 2 of 5
M/045/0077
December 8, 2009

Thank you for your cooperation in completing this permitting action.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. B. Baker', with a stylized flourish at the end.

Paul B. Baker
Minerals Program Manager

PBB:lah:vs
Attachment: Review
O:\M045-Tooele\M0450077-N.Gransville\draft\REV1-3197-10282009.doc

**First REVIEW OF NOTICE OF INTENTION
TO COMMENCE LARGE MINING OPERATIONS**

**Geneva Rock Products, Inc.
North Grantsville Quarry**

**M/045/0077
December 8, 2009**

General Comments:

Comm ent #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
1	General	Submittal should be formatted to easily incorporate additional revisions and amendments.	lah	

R647-4-105 - Maps, Drawings & Photographs

General Map Comments

Comm ent #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
3	Page 10 Para 2	Label both applicable map and cross section with the commitment for the 1H:1V slopes. (Both have exaggerated vertical scales.)	lah	
4	Page 10	Typo – as written “104.4” should be 105.3.	lah	
5		Please provide a watershed map and drainage direction arrows showing both in pit and offsite operations during and after operations.	TM	

105.1 - Topographic base map, boundaries, pre-act disturbance

Comm ent #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
6	Figure 1	Add Township and Range to the drawing.	lah	

105.3 - Drawings or Cross Sections (slopes, roads, pads, etc.)

Comm ent #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
6	Geologic map	Enlarge the scale of the map to make it readable, and include the map reference. Consider using a more detailed map of the area.	lah	

105.4 - Photographs

Comm ent #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
7	Omission	Add a section 105.4 and reference Appendix A for photographs of the site.	lah	

106.8 - Depth to groundwater, extent of overburden, geology

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
8	Page 21 Para 4	Typo – “t”	lah	
9	Page 21 Omission	Add a paragraph about the geology of the permit site. Include the rock types and orientation of the bedding and fractures as it would relate to slope stability in Section 109.4.	lah	

106.9 - Location & size of ore, waste, tailings, ponds

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
10	Page 22 Para 3	The water storage tank and overhead camel need to be included in the bond calculation.	lah	

R647-4-109 - Impact Assessment

109.1 - Impacts to surface & groundwater systems

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
11		Please provide the assumptions for a curve number of 62. Also provide a watershed map showing the extent of the watershed area associated with the Miner's Canyon watershed.	TM	

109.3 - Impacts on existing soils resources

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
12	Page 28 para 1	As noted “all fly-rock that could occur...”. The Division recommends eliminating fly-rock by using adequate stemming to confine the blast energy. This will result in better fragmentation, increased production, and an increase in crusher capacity.	lah	

109.5 - Actions to mitigate any impacts

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
13	Appendix E	No permits are included.	lah	

R647-4-110 - Reclamation Plan

110.2 - Roads, highwalls, slopes, drainages, pits, etc., reclaimed

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
14	Page 31 Para 3	Final reclamation will require that the 2 track road be ripped and seeded. Perhaps it would be cost effective to reclaim when other equipment is still onsite. This item should probably be noted as a line item on the surety sheets if the timeframe for reclamation is different.	lah	
15		The plan is unclear on some of the details for final highwall configuration. The Division realizes that the remaining highwalls surrounding the pit floor will be left at 45 degrees which meets regulatory requirements. Accommodations for off-site drainage, draining into the pit, states that drainages flowing over the highwalls into the quarry depression will be lined with 8 " to 24 " rock to prevent erosion . The maps show a major canyon drainage coming across the north end of the pit and a smaller drainage on the south end. Please discuss how these particular drainages will be handled. The Division also suggests an irregular final slope length and width to more closely blend with existing topography. It would be a better reclamation visually to leave the slopes as a rock talus slope then a benched configuration. (TM)	TM	
16		The Division suggests an irregular final slope length and width to more closely blend with existing topography.	TM	

R647-4-112 - Variance

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
		No Variances requested – no response needed	lah	

R647-4-113 – Surety

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
17	Appendix F	The Operator must post a bond of a minimum of \$1,003,000.00 before the Division can approve the permit.	whw	